CLAIMS

1. A method, comprising:

reading device identification codes from each of a plurality of devices;

reading device specifications from a database using the device identification codes; and

comparing data associated with each device with the device specifications corresponding to said each device.

2. The method according to Claim 1, wherein reading device identification codes comprises causing the plurality of devices to transmit associated device identification codes.

3. The method according to Claim 2, wherein the plurality of devices are connected in a Boundary-Scan chain, and wherein causing transmission of the device identification codes comprises:

setting the plurality of devices into a Test-Logic Reset state, thereby causing the plurality of devices to read out the associated device identification codes; and

shifting out the device identification codes from the plurality of devices.

4. The method according to Claim 1, further comprising using the device identification codes to generate a board/device information file including a device record for each of the plurality of devices.

5. The method according to Claim 1, wherein reading the device specifications for said each device comprises searching the database for device specifications associated with the device identification number associated using said each device, and downloading the device specifications when the database includes the device specifications for the associated device identification number.

6. The method according to Claim 5, wherein reading the device specification further comprises prompting the user to enter the data for said each device when the database fails to include the device specifications for the associated device identification number.

7. The method according to Claim 1, wherein reading the data comprises prompting the user to enter the data for said each device when the database fails to include the device specifications for the associated device identification number.

8. The method according to Claim 1, further comprising prompting a user to enter the data for said each device, and storing the data in a board/device information file associated with said each device.

9. The method according to Claim 1, wherein the plurality of devices comprise programmable logic devices, and the data associated with each device comprises configuration data for the device.

10. A method, comprising:
    reading device identification codes from each of a plurality of devices;
    using the device identification codes to generate a board/device information file including a device record for each of the plurality of devices;
    storing device specifications and data for each device of the plurality of devices in the device record associated with said each device; and
    comparing the data of said each device with the device specifications corresponding to said each device.

11. The method according to Claim 10, wherein reading device
identification codes comprises causing the plurality of
devices to transmit associated device identification codes.

12. The method according to Claim 11, wherein the plurality
of devices are connected in a Boundary-Scan chain, and
wherein causing transmission of the device identification
codes comprises:
    setting the plurality of devices into a Test-Logic Reset
state, thereby causing the plurality of devices to read out
the associated device identification codes; and
    shifting out the device identification codes from the
plurality of devices.

13. The method according to Claim 10, wherein storing the
device specifications for said each device comprises
searching the database for device specifications associated
with the device identification number associated using said
each device, and downloading the device specifications when
the database includes the device specifications for the
associated device identification number.

14. The method according to Claim 13, wherein storing the
device specification further comprises prompting the user to
enter the data for said each device when the database fails
to include the device specifications for the associated
device identification number.

15. The method according to Claim 10, wherein storing the
data comprises prompting the user to enter the data for said
each device.

16. The method according to Claim 10, wherein the plurality
of devices comprise programmable logic devices, and the data
of each said device comprises configuration data for the
device.

17.  A method, comprising:

　　　reading device identification codes from each of a
plurality of devices;

　　　reading device specifications from a database using the
device identification codes;

　　　prompting a user to enter data for each of the plurality
of devices; and

　　　comparing the entered data for each device with the
device specifications corresponding to said each device.

18.  The method according to Claim 17, wherein reading device
specifications comprises causing the plurality of devices to
transmit associated device identification codes.

19.  The method according to Claim 18, wherein the plurality
of devices are connected in a Boundary-Scan chain, and
wherein causing transmission of the device identification
codes comprises:

　　　setting the plurality of devices into a Test-Logic Reset
state, thereby causing the plurality of devices to read out
the associated device identification codes; and

　　　shifting out the device identification codes from the
plurality of devices.

20.  The method according to Claim 17, wherein the plurality
of devices comprise programmable logic devices, and the
entered data for each device comprises configuration data for
the device.